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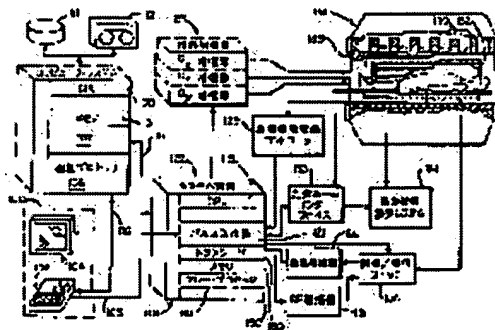
(54) THREE-DIMENSIONAL DIGITAL SUBTRACTION MAGNETIC RESONANCE
ANGIOGRAPHY

(57)Abstract:

PROBLEM TO BE SOLVED: To increase reconfigured continuous images and identify dynamic changes in a patient at highly precisely without reducing the accuracy of a diagnostic evaluation by sampling the central region of a (k) space at the speed higher than the sampling speed in the circumferential region of the (k) space.

SOLUTION: A transceiver module 150 generates an RF excitation magnetic field in a coil 152, and a signal generated by a patient is detected by a receiver coil and inputted into a receiver attenuator via an amplifier 153.

An NMR signal it mixed with a carrier signal, its difference signal is mixed with a reference signal, the obtained signal is A/D converted, an in-phase (I) value



and an orthogonal (Q) value of 16 bit are generated, and a composite stream of both values are stored. A phase encoding pulse is stepped by a series of values so as to sample a three-dimensional (k) space, and image frame is reconfigured by using the collection data of the (k) space from the central region sampled at relatively high speed.

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